

A catheter with stent and a method for the production of such catheter with stent

ABSTRACT

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A catheter system for the introduction and implantation of a stent comprises a catheter (1) with an expandable portion (2) at its one end, elements at the opposite catheter end intended for communication with means for expanding the expandable portion, and a stent (3) made of a material to which a permanent deformation is imparted when the catheter is expanded until the desired insertion diameter is reached, said stent (3) being arranged around the expandable portion (2) of the catheter, where the stent (3) is adhesively connected to the expandable portion (2) of the catheter with adhesion forces between stent and support which are less powerful than the shear forces with which the expandable portion (2) of the catheter influences the adhesive connection when said portion is expanded, all of the above being obtainable by a method whereby the stent (3) is arranged around the expandable portion (2) of the catheter, the catheter surface is softened, e.g. by heating, whereupon the stent (3) is depressed into the catheter surface.

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